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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/918,274	07/30/2001	Masahiko Namerikawa	815 001	2785
25191	7590	11/14/2002		
BURR & BROWN PO BOX 7068 SYRACUSE, NY 13261-7068			EXAMINER	
			BUDD, MARK OSBORNE	
			ART UNIT	PAPER NUMBER
			2834	
DATE MAILED: 11/14/2002				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	918274	Applicant(s)	Namerikawa et al
Examiner	M. Bud	Group Art Unit	2834

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication .
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

Responsive to communication(s) filed on 10/31/02.

This action is FINAL.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

Claim(s) 2, 4-7, 9, 10, 12-20, 27 and 28 is/are pending in the application.

Of the above claim(s) _____ is/are withdrawn from consideration.

Claim(s) 18 is/are allowed.

Claim(s) 2, 4-7, 9, 10, 12-17, 19, 20, 27 and 28 is/are rejected.

Claim(s) _____ is/are objected to.

Claim(s) _____ are subject to restriction or election requirement.

Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The proposed drawing correction, filed on _____ is approved disapproved.

The drawing(s) filed on _____ is/are objected to by the Examiner.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All Some* None of the CERTIFIED copies of the priority documents have been received.

received in Application No. (Series Code/Serial Number) _____.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

Attachment(s)

Information Disclosure Statement(s), PTO-1449, Paper No(s). 9(7-23-02) Interview Summary, PTO-413

Notice of Reference(s) Cited, PTO-892

Notice of Informal Patent Application, PTO-152

Notice of Draftsperson's Patent Drawing Review, PTO-948

Other _____

Office Action Summary

Art Unit: 2834

Claims 2, 4-7, 9, 10, 12-17, 19, 20, 27 and 28 rejected under 35 U.S.C. 103(a) as being unpatentable over Culp ('484), Culp (816) or Swada in view of Rudnick, Kohno or Heinz.

Culp and Swada teach the trapezoidal multi-layer piezo electric actuator structure except for the specific lead architecture. They provide leads wire bonded to the sides of the stacks. However, each of Heinz Kohno and Rudnick teach providing solid state leads that both extend onto an end surface of a piezo electric stack so as to make assembly easier and provide stronger connections. Thus, for at least these reasons it would have been obvious to one of ordinary skill in the art to use an end surface of Swada or Culp as the lead connection surface.

Claim 18 is allowed.



MARY J. BUDD
PRIMARY EXAMINER
ART UNIT 212

M BUDD/pj

11/12/02